

## Agricultural Waste Management

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Sioux County, Iowa

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Application of sewage sludge		Disposal of wastewater by irrigation	
		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
1B3: Ida-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
1C3: Ida-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
1D3: Ida-----	95	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
8B: Judson-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
11B: Radford-----	50	Very limited Depth to saturated zone Flooding	1.00	Very limited Flooding	1.00	Very limited Depth to saturated zone	1.00
			0.60	Depth to saturated zone	1.00	Flooding	0.60
Judson-----	35	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
26: Kennebec-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
27B: Terril-----	90	Not limited		Not limited		Somewhat limited	

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28B: Dickman-----	90	Very limited Filtering capacity Leaching limitation	1.00  0.45	Very limited Filtering capacity	1.00	Too steep for surface application	0.08
						Very limited Filtering capacity	1.00
						Too steep for surface application	0.08
28C2: Dickman-----	95	Very limited Filtering capacity Leaching limitation	1.00  0.45	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
						Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
28D2: Dickman-----	95	Very limited Filtering capacity  Slope  Leaching limitation	1.00  0.63  0.45	Very limited Filtering capacity  Slope	1.00  0.63	Very limited Too steep for surface application	1.00
						Filtering capacity	1.00
						Too steep for sprinkler application	0.77
31: Afton-----	95	Very limited Depth to saturated zone Flooding Leaching limitation Restricted permeability	1.00  0.60 0.50  0.30	Very limited Depth to saturated zone Flooding Restricted permeability	1.00  1.00 0.22	Very limited Depth to saturated zone	1.00
						Flooding	0.60
						Restricted	0.22
						permeability	
32: Spicer-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
33C2: Steinauer-----	100	Leaching limitation	0.70				
		Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Too steep for surface application Restricted permeability Too steep for sprinkler application	0.91 0.22 0.02
33D2: Steinauer-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 0.77 0.22
		Restricted permeability	0.30	Restricted permeability	0.22		
33E2: Steinauer-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 1.00 0.22
		Restricted permeability	0.30	Restricted permeability	0.22		
33G: Steinauer-----	95	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application Too steep for sprinkler application Restricted permeability	1.00 1.00 0.22
		Restricted permeability	0.30	Restricted permeability	0.22		

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
54: Zook-----	90	Very limited Restricted permeability Depth to saturated zone Flooding  Leaching limitation	1.00  1.00  0.60  0.50	Very limited Depth to saturated zone Flooding  Restricted permeability	1.00  1.00  1.00	Very limited Depth to saturated zone Restricted permeability Flooding	1.00  1.00  0.60
72: Estherville-----	100	Very limited Filtering capacity Droughty	1.00  0.25	Very limited Filtering capacity Droughty	1.00  0.25	Very limited Filtering capacity Droughty	1.00  0.25
72B: Estherville-----	100	Very limited Filtering capacity Droughty	1.00  0.25	Very limited Filtering capacity Droughty	1.00  0.25	Very limited Filtering capacity Droughty Too steep for surface application	1.00  0.25 0.08
72D2: Estherville-----	100	Very limited Filtering capacity  Droughty  Slope	1.00  0.25  0.04	Very limited Filtering capacity  Droughty  Slope	1.00  0.25  0.04	Very limited Too steep for surface application Filtering capacity Droughty Too steep for sprinkler application	1.00  1.00  0.25 0.22
78B2: Sac-----	100	Somewhat limited Restricted permeability	0.30	Somewhat limited Restricted permeability	0.22	Somewhat limited Restricted permeability Too steep for surface application	0.22 0.08
78C2: Sac-----	100	Somewhat limited		Somewhat limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
78D2: Sac-----	95	Restricted permeability	0.30	Restricted permeability	0.22	Too steep for surface application	0.91
						Restricted permeability	0.22
						Too steep for sprinkler application	0.02
		Somewhat limited Slope	0.37	Somewhat limited Slope	0.37	Very limited Too steep for surface application	1.00
91: Primghar-----	95	Restricted permeability	0.30	Restricted permeability	0.22	Too steep for sprinkler application	0.59
						Restricted permeability	0.22
		Not limited		Not limited		Not limited	
91B: Primghar-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
92: Marcus-----	95	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00	Very limited Depth to saturated zone	1.00
		Leaching limitation	0.70	Restricted permeability	0.22	Restricted permeability	0.22
		Restricted permeability	0.30				
108: Wadena-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
108B: Wadena-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for surface application	0.08
116: Graceville-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
133: Colo-----	90	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
203: Cylinder-----	95	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43	Very limited Filtering capacity Depth to saturated zone	1.00 0.43
259: Biscay-----	95	Very limited Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Filtering capacity	1.00 1.00	Very limited Depth to saturated zone Filtering capacity	1.00 1.00
308: Wadena-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
308B: Wadena-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
309: Allendorf-----	95	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
309B: Allendorf-----	95	Filtering capacity	1.00	Filtering capacity	1.00	Filtering capacity	1.00
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
309B2: Allendorf-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
309C2: Allendorf-----	100	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 0.91 0.02
310: Galva-----	100	Not limited		Not limited		Not limited	
310B: Galva-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
310B2: Galva-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
310C2: Galva-----	95	Not limited		Not limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
310D2: Galva-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
						Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
401B3: Crofton-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
401C3: Crofton-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91
						Too steep for sprinkler application	0.02
401D3: Crofton-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
401E3: Crofton-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00



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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
						Too steep for sprinkler application	1.00
410: Moody-----	100	Not limited		Not limited		Not limited	
410B: Moody-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
410B2: Moody-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
410C2: Moody-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application Too steep for sprinkler application	0.91 0.02
410D2: Moody-----	90	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Very limited Too steep for surface application Too steep for sprinkler application	1.00 0.77
428B: Ely-----	95	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone	0.43	Somewhat limited Depth to saturated zone Too steep for surface application	0.43 0.08
467: Radford-----	95	Very limited		Very limited		Very limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
474: Bolan-----	100	Depth to saturated zone	1.00	Flooding	1.00	Depth to saturated zone	1.00
		Flooding	0.60	Depth to saturated zone	1.00	Flooding	0.60
474B: Bolan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00
474B2: Bolan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
		Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application	1.00 0.08
474C2: Bolan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Filtering capacity Too steep for surface application Too steep for sprinkler application	1.00 0.91 0.02
474D2: Bolan-----	95	Very limited Filtering capacity	1.00	Very limited Filtering capacity	1.00	Very limited Too steep for surface application	1.00
		Slope	0.63	Slope	0.63	Filtering capacity Too steep for sprinkler application	1.00 0.77

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
485: Spillville-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
486: Davis-----	95	Not limited		Somewhat limited Flooding	0.40	Not limited	
615: Colo-----	60	Very limited Depth to saturated zone Flooding Leaching limitation	1.00 1.00 0.70	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 1.00
Spillville-----	35	Very limited Flooding	1.00	Very limited Flooding	1.00	Very limited Flooding	1.00
670: Rawles-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
733: Calco-----	95	Very limited Depth to saturated zone Leaching limitation Flooding	1.00 0.70 0.60	Very limited Depth to saturated zone Flooding	1.00 1.00	Very limited Depth to saturated zone Flooding	1.00 0.60
785: Spillco-----	95	Somewhat limited Flooding	0.60	Very limited Flooding	1.00	Somewhat limited Flooding	0.60
801B2: Bolan Variant-----	95	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
801C2: Bolan Variant-----	90	Not limited		Not limited		Somewhat limited Too steep for surface application	0.91

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
801D2: Bolan Variant-----	100	Somewhat limited Slope	0.63	Somewhat limited Slope	0.63	Too steep for sprinkler application	0.02
						Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	0.77
801F: Bolan Variant-----	100	Very limited Slope	1.00	Very limited Slope	1.00	Very limited Too steep for surface application	1.00
						Too steep for sprinkler application	1.00
810: Galva-----	100	Not limited		Not limited		Not limited	
810B: Galva-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
810B2: Galva-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
812: Moody-----	100	Not limited		Not limited		Not limited	
812B: Moody-----	100	Not limited		Not limited		Somewhat limited Too steep for surface application	0.08
812B2: Moody-----	100	Not limited		Not limited		Somewhat limited	

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
878B: Ocheyedan-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Too steep for surface application	0.08
						Somewhat limited Too steep for surface application Too acid	0.08
						Too acid	0.07
878B2: Ocheyedan-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application Too acid	0.08
						Too acid	0.07
878C2: Ocheyedan-----	90	Somewhat limited Too acid	0.02	Somewhat limited Too acid	0.07	Somewhat limited Too steep for surface application	0.91
						Too steep for surface application Too acid	0.07
						Too steep for sprinkler application	0.02
5010: Pits-----	100	Not rated		Not rated		Not rated	
5040: Orthents-----	100	Not rated		Not rated		Not rated	
5044: Fluvaquents-----	95	Very limited		Very limited		Very limited	
		Not Rated (miscellaneous unit)	1.00	Not Rated (miscellaneous unit)	1.00	Not Rated (miscellaneous unit)	1.00
		Depth to saturated zone	1.00	Depth to saturated zone	1.00	Depth to saturated zone	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value	Rating class and limiting features	Value
		Flooding Low adsorption Runoff limitation	1.00 1.00 0.40	Flooding Low adsorption	1.00 1.00	Flooding Low adsorption	1.00 1.00
W: Water-----	100	Not rated		Not rated		Not rated	